



Washington Department of Fish and Wildlife

Fish Passage & Diversion Screening Inventory Database Report Cover Sheet

The following report is extracted from the Washington Department of Fish and Wildlife's (WDFW) Fish Passage and Diversion Screening Inventory Database (FPDSI). WDFW makes every attempt to keep these reports in sync with FPDSI; however, the dynamic nature of the data and workflows associated with maintaining the database may result in short-term differences.

Users are encouraged to contact WDFW to discuss appropriate use of the data and how we can assist with fish passage barrier removal or inventory. Please visit the Fish Passage web site for contact information at: <https://wdfw.wa.gov/species-habitats/habitat-recovery/fish-passage/about>

Disclaimers:

- Data presented here represent a snapshot observation of conditions in a dynamic environment that is subject to change. Fish passage data are also collected from a variety of agencies and sources. Therefore, WDFW makes no guarantee concerning the data's content, accuracy, completeness, or the results obtained from use of the data. WDFW assumes no liability for the data represented here.
- These data are not an attempt to provide you with an official agency response as to the impacts of your project on fish and wildlife.
- Note that some fish passage features, habitats or species may occur in areas not currently known to the WDFW Fish Passage division, and may not be reflected in this database. A lack of data does not necessarily indicate that a feature, habitat, or species are not present.
- Unauthorized attempts to alter or modify these data are strictly prohibited.
- Bankfull width measurements included in these reports should not be used for fish passage crossing design. They are solely for assessment purposes.
- The barrier status reported in this document is based on the swimming abilities of adult salmonids. Passabilities are a qualitative value, and should not be interpreted as a quantitative calculation. Please see page 1-4 of the Fish Passage Inventory, Assessment and Prioritization Manual for further clarification: <https://wdfw.wa.gov/publications/02061>
- EXIF data presented with Image Reports may be erroneous due to camera battery failures and resetting of camera clock functions.

Abbreviations:

Most abbreviations in this report are defined in the Quick Reference Tables of the Fish Passage Inventory, Assessment, and Prioritization Manual. Additional commonly used abbreviations are defined as follows:

NFB = no potential salmonid use, **BB** = both banks, **LB** = left bank looking downstream, **RB** = right bank looking downstream, **US** or **U/S** = upstream, **DS** or **D/S** = downstream, **WSDrop** = water surface drop, **BFW** = bankfull width, **OHW** = ordinary high water, **SLW** = scour line width, **CMP** = corrugated metal pipe, **Q_{fp}** = fish passage flow, **V&D** = Velocity and Depth, **ROW** = Right of Way

The FPDSI database often uses default values such as '-99.99' or '-999' to represent null values.

WDFW Fish Passage and Diversion Screening Inventory Database

Site Description Report

Site ID

Project

☐ Mitigated

Geographic Coordinates

Latitude (WGS 84):	<input type="text" value="48.50488217"/>
Longitude (WGS 84):	<input type="text" value="-121.659201549"/>
East (NAD 83 HARN):	<input type="text" value="1,359,260.5"/>
North (NAD 83 HARN):	<input type="text" value="1,158,886.9"/>

Waterbody

Stream:	<input type="text" value="unnamed"/>
Tributary To:	<input type="text" value="Skagit R"/>
WRIA:	<input type="text" value="04.0650"/>
River Mile:	<input type="text" value="0.03"/>
Fish Use Potential:	<input type="text" value="Yes"/>
FUP Criteria:	<input type="text" value="Physical"/>

General Location

Road Name:	<input type="text" value="Sauk Store Rd"/>
Mile Post:	<input type="text" value="0.60"/>
County:	<input type="text" value="Skagit"/>
WDFW Region:	<input type="text" value="4"/>

Owner

Type:	<input type="text" value="County"/>
Name:	<input type="text" value="Skagit County"/>

PI Species

- | | | |
|----------------------------------|------------------------------------|--|
| <input type="checkbox"/> Sockeye | <input type="checkbox"/> Chinook | <input type="checkbox"/> Sea Run Cutthroat |
| <input type="checkbox"/> Pink | <input type="checkbox"/> Coho | <input checked="" type="checkbox"/> Resident Trout |
| <input type="checkbox"/> Chum | <input type="checkbox"/> Steelhead | <input type="checkbox"/> Bull Trout |

Associated Features

- | | | | |
|---|--------------------------------|--|------------------------------------|
| <input checked="" type="checkbox"/> Culvert | <input type="checkbox"/> Dam | <input type="checkbox"/> Natural Barrier | <input type="checkbox"/> Diversion |
| <input type="checkbox"/> Non-Culvert Xing | <input type="checkbox"/> Other | <input type="checkbox"/> Fishway | |

Location/Directions

Sauk Store Rd crossing at mile post 0.6 (50 meters west of 49972 Sauk Store Rd). MP taken from west end of loop.

Site Comments

See Site Comments for 991711 for explanation why this site is resident only.

WDFW Fish Passage and Diversion Screening Inventory Database

Level A Culvert Assessment Report

Site ID:	CD6		
Latitude:	48.50488217	Stream:	unnamed
Longitude:	-121.659201549	Tributary To:	Skagit R
		WRIA:	04.0650
		Fish Use Potential:	Yes

Data Source	Washington Department of Fish and Wildlife		
Field Crew:	Ingram;Romero	Review Date:	2/2/2011

Culvert Details								Level A Parameters					
ID	Shape	Material	Span	Rise	Length	WDIC	Apron	WSDrop	Location	Countersunk	Backwater	Slope (%)	Sediment
1.2	RND	CST	1.22	1.22	14.10	0.05	NO	1.27	Outlet	No	No	3.12	
2.2	RND	CST	0.91	0.91	18.60	-99.99	NO	0.12		No		8.27	
All dimensions in meters													

Channel Description	
Toe Width (m):	3
Average Width (m):	6.30
Culvert/Stream Width Ratio:	0.34
Plunge Pool	
Length (m):	2.10
Max Depth (m):	0.42
OHW Width (m):	5.10
Road	
Fill Depth (m):	2.00



Assessment Results		Tidal Influence:		Tidegate Present:	No
Barrier:	Yes	Passability (%):	0	Method:	Level A
Reason:	WS Drop	Fishway Present:	No	Recheck:	

Comments
2/2/11 visit, upstream end of 0.91 pipe was completely buried in substrate and depositional materials, heavy erosion present upstream of pipe. All information collected on 0.91m pipe is from a previous survey

Potential Habitat Gain					
Survey Type:	RSFS	Spawning (sq m):	1,928	Length (m):	2,664
Significant Reach:	Yes	Rearing (sq m):	2,012	PI Total	10.83

WDFW Fish Passage and Diversion Screening Inventory Database

Habitat Survey Summary Report

Site ID: **CD6**

Latitude: **48.50488217** Longitude: **-121.659201549** WRIA: **04.0650**

Stream: **unnamed** Tributary To: **Skagit R** PI Total: **10.83**

Survey Type

Spreadsheet File(s):

County Inventory\ CD6.AddBarrsPI.xls, CD6.xls, 991711.xls, 991711A.xls, 991711B.xls

Downstream Survey

Date: Crew: Length (m):

Downstream Comments:

Short distance to the Skagit River. Connection to Skagit R confirmed.

Upstream Survey

Date: Crew: Length (m):

Upstream Comments:

Upstream site is a WSDOT Barrier Culvert 991711 under SR 20, entire system was walked and habitat information can be reviewed in its folder.

Potential Habitat Gain

Lineal (m):

Spawning Area (sq m):

Rearing Area (sq m):

Distribution

- ☒ Anadromous
☐ Resident Only
☐ Unknown

Gain Direction (Resident Only):

Potential Species Benefit

☐ Sockeye / Kokanee

☐ Chinook

☐ Searun Cutthroat

☐ Pink

☐ Coho

☒ Resident Trout

☐ Chum

☐ Steelhead

☐ Bull Trout

WDFW Fish Passage and Diversion Screening Inventory Database

Barrier Priority Index Report

Site ID: CD6

Stream	<input type="text" value="unnamed"/>	Trib To	<input type="text" value="Skagit R"/>	WRIA	<input type="text" value="04.0650"/>
Habitat (H) Estimation Method			<input type="text" value="RSFS"/>		

	B	H	M	D	C	Species PI
Sockeye	<input type="text"/>	<input type="text"/>	<input type="text" value="2"/>	<input type="text"/>	<input type="text" value="2"/>	<input type="text" value="0.00"/>
Pink	<input type="text"/>	<input type="text"/>	<input type="text" value="2"/>	<input type="text"/>	<input type="text" value="2"/>	<input type="text" value="0.00"/>
Chum	<input type="text"/>	<input type="text"/>	<input type="text" value="2"/>	<input type="text"/>	<input type="text" value="2"/>	<input type="text" value="0.00"/>
Coho	<input type="text"/>	<input type="text"/>	<input type="text" value="2"/>	<input type="text"/>	<input type="text" value="2"/>	<input type="text" value="0.00"/>
Chinook	<input type="text"/>	<input type="text"/>	<input type="text" value="2"/>	<input type="text"/>	<input type="text" value="2"/>	<input type="text" value="0.00"/>
Steelhead	<input type="text" value="1"/>	<input type="text" value="1,482"/>	<input type="text" value="2"/>	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="1.88"/>
Searun Cutthroat	<input type="text" value="1"/>	<input type="text" value="1,482"/>	<input type="text" value="2"/>	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="3.85"/>
Resident Trout	<input type="text" value="1"/>	<input type="text" value="2,003"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="3.56"/>
Dolly/Bull Trout	<input type="text" value="1"/>	<input type="text" value="2,003"/>	<input type="text" value="2"/>	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="1.54"/>
	TOTAL PI					<input type="text" value="10.83"/>

B = proportion of fish passage improvement (1, 0.67, 0.33).

H = potential habitat gain (square meters), spawning habitat for sockeye, pink and chum, rearing habitat for the rest.

M= mobility modifier (anadromous = 2, resident = 1).

D = stock condition modifier (critical = 3, depressed = 2, not 2 or 3 = 1).

C= repair cost modifier (<\$100K = 3, \$100K - \$500K = 2, >\$500K = 1).